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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,200	08/24/2001		Andrea Califano	FGTI-P01-002	3382
23910	7590	09/30/2004		EXAMINER	
FLIESLER		•	ABRISHAMKAR, KAVEH		
FOUR EMBARCADERO CENTER SUITE 400				ART UNIT	PAPER NUMBER
SAN FRANCISCO, CA 94111				2131 DATE MAILED: 09/30/2004	[0

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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	Application No.	Applicant(s)	1
	09/939,200	CALIFANO ET AL. $U$	
Office Action Summary	Examiner	Art Unit	
	Kaveh Abrishamkar	2131	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed  /s will be considered timely.  I the mailing date of this communication.  ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24 A	uaust 2001.		
<u> </u>	action is non-final.		
3) Since this application is in condition for allowar closed in accordance with the practice under E			
Disposition of Claims			
4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-23 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). sjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6, 7.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:	/ (PTO-413) ate Patent Application (PTO-152)	

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### **DETAILED ACTION**

This action is in response to the communication filed on August 24, 2001.
 Claims 1 – 23 were received for consideration. No preliminary amendments for the claims were filed. Claims 1 – 23 are currently being considered.

### Information Disclosure Statement

2. Dated and initialed copies of Applicant's IDS form 1449, Paper No. 6 and No. 7, are attached to this Office action.

# Claim Objections

- 3. Claims 1 13 are objected to because of the following informalities: Every preamble should be followed by a semi-colon ";", denoting the start of the limitations. Appropriate correction is required.
- 4. Claim 12 is objected to because of the following informalities: "an asymmetric key algorithm" is repeated two times in the list, and one of the occurrences should be deleted.

Claim Rejections - 35 USC § 112

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim states that the number generator is selected from a group, but does not delineate which group making the claim indefinite.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1 – 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Lirov et al. (U.S. Patent 6,785,810).

Regarding claim 1, Lirov discloses:

A system for securely storing medical data, comprising:

an input process allowing an individual to enter identity information and medical data to associate with the identity information (column 4 line 62 - column 5 line 3, column 9 line 62 - column 10 line 4);

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an encryption key process for providing to each individual an encryption key for encrypting medical data associated with the individual (column 5 line 4 – column 6 line 38); and

a data table generator for storing medical data including encrypted medical data, in a table, whereby stored medical data from different individuals may be encrypted with different encryption keys (Figure 1a item 105, column 5 lines 53 – column 6 line 11).

Regarding claim 13, Lirov discloses:

A system for storing medical data, comprising:

an input process for allowing an individual to enter identity information and medical data to associate with the identity information (column 4 line 62 - column 5 line 3, column 9 line 62 - column 10 line 4);

a private identity generator for generating independent of the identity information (column 5 line 4 – column 6 line 38);

a unique private identity for the individual (column 5 line 4 – column 6 line 38); an encryption key process for providing to the individual a respective encryption key for encrypting the medical data of the individual (column 5 line 4 – column 6 line 38);

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a relational link generator for providing relational links for the medical data and the encryption key associated with the individual, whereby the medical data and encryption key can be stored in a table of a relational database (Figure 1a item 105, column 5 lines 53 – column 6 line 11).

Regarding claim 18, Lirov discloses:

A process for controlling access to medical data, comprising:

allowing an individual to provide medical data and identity information (column 4 line 62 - column 5 line 3, column 9 line 62 - column 10 line 4);

providing the individual with a private identity and storing the medical data and identity information in tables of a relational database employing the private identity to provide a relational link to the medical and identity data (Figure 1a item 105, column 5 line 4 – column 6 line 38);

employing the private identity to create an encryption key for the respective individual (column 5 line 4 – column 6 line 38); and

encrypting, as a function of the encrypting key, medical data associated with the individual, whereby medical data of different individuals are encrypted with different respective encryption keys (column 5 line 4 – column 6 line 38).

Claim 2 is rejected as applied above in rejecting claim 1. Furthermore, Lirov discloses:

A system according to claim 1, further comprising a key table generator for storing the encryption key in a key table (Figure 1a item 115, column 5 lines 4 - 33).

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Claim 3 is rejected as applied above in rejecting claim 1. Furthermore, Lirov discloses:

A system according to claim 1, wherein the input process includes a private identity generator for generating for an individual a unique private identity being generated independently of the identity information (column 5 line 4 – column 6 line 38).

Claim 14 is rejected as applied above in rejecting claim 13. Furthermore, Lirov discloses:

A system according to claim 13, wherein the relational link generator includes an encryption process for encrypting a relational link for accessing medical and/or the encryption key (column 5 lines 4 - 6, column 6 lines 12 - 27).

Claim 15 is rejected as applied above in rejecting claim 13. Furthermore, Lirov discloses:

A system according to claim 13, wherein the relational link generator includes a hash process for generating a relational link as a hash function of the private identity (column 5 lines 27 - 33, column 5 lines 12 - 27).

Claim 16 is rejected as applied above in rejecting claim 13. Furthermore, Lirov discloses:

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A system according to claim 13, wherein the private identity generator includes a random number generator for generating the private identity as a function of a random number (column 5 line 4 – column 6 line 38).

Claim 19 is rejected as applied above in rejecting claim 18. Furthermore, Lirov discloses:

A process according to claim 18, further comprising:

allowing a medical professional to search the relational database to identify medical data of interest (column 6 lines 18 – 38, column 7 lines 54 – 65).

Claim 20 is rejected as applied above in rejecting claim 18. Furthermore, Lirov discloses:

A process according to claim 18, further comprising:

allowing a medical professional to request identity information associated with medical data in the relational data base, and employing the private identity to notify the respective individual of the request (column 6 lines 18 - 38, column 7 lines 54 - 65).

Claim 21 is rejected as applied above in rejecting claim 18. Furthermore, Lirov discloses:

A process according to claim 18, further comprising:

allowing the individual to control access to the medical data of the individual (Table 1, column 4 lines 10 - 21).

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Claim 22 is rejected as applied above in rejecting claim 18. Furthermore, Lirov discloses:

A process according to claim 18, further comprising:

allowing the individual to store portions of the medical data in the clear and portions in an encrypted form (column 4 line 62 – column 5 line 3).

Claim 4 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3, wherein the private identity generator includes a random number generator for generating a random number for the private identity (column 5 line 4 – column 6 line 38).

Claim 5 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3, wherein the random number generator is selected from the group (column 5 line 4 – column 6 line 38).

Claim 6 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3, further including:

means for employing the private identity as a relational link key for relating medical data associated with the individual to the encryption key associated with the individual (column 5 lines 4 - 6, column 6 lines 12 - 27).

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Claim 7 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3, wherein the encryption key process includes:

a process for generating the encryption key as a function of the private identity (column 5 line 4 – column 6 line 38).

Claim 8 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3 wherein the encryption key process includes:

a process for generating the encryption key as an asymmetric function of the private identity (column 5 line 4 – column 6 line 38).

Claim 9 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3 wherein the encryption key process includes:

a process for generating the encryption key as a symmetric function of the private identity (column 5 line 4 – column 6 line 38).

Claim 10 is rejected as applied above in rejecting claim 2. Furthermore, Lirov discloses:

A system according to claim 2, further including:

a table encryption process for encrypting the key table to secure the encryption key stored therein (column 5 lines 4 - 13).

Claim 11 is rejected as applied above in rejecting claim 3. Furthermore, Lirov discloses:

A system according to claim 3, further comprising:

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a relational link generator for processing the private identity to generate a relational link for associating medical data in the data table with a respective private identity (column 5 lines 4 - 6, column 6 lines 12 - 27).

Claim 12 is rejected as applied above in rejecting claim 11. Furthermore, Lirov discloses:

A system according to claim 11, wherein the relational link generator includes a process for processing the private identity selected from the group consisting of a symmetric key algorithm, an asymmetric key algorithm, an asymmetric key algorithm, and a hash algorithm (column 5 line 4 – column 6 line 38).

Claim 17 is rejected as applied above in rejecting claim 16. Furthermore, Lirov discloses:

A system according to claim 16, wherein the relational link generator includes a process for encrypting the private identity to provide an encrypted relational link (column  $5 \times 4 - 13$ ).

Claim 23 is rejected as applied above in rejecting claim 22. Furthermore, Lirov discloses:

A process according to claim 22, comprising:

allowing a medical professional to search the relational database (Table 1, column 4 lines 10-21, column 6 lines 18-38, column 7 lines 54-65).

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### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaveh Abrishamkar whose telephone number is 703-305-8892. The examiner can normally be reached on Monday thru Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KA 09/28/2004

AYAZ SHEIKH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100